

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A three-dimensional image display method comprising:

detecting directions of incident light emitted from a plurality of light sources ~~source~~ at a plurality of detectors;

calculating ~~a position~~ positions of the plurality of light sources ~~source~~ existing in real space based on the detected directions;

comparing each of the positions ~~position~~ of the light sources ~~source~~ and a virtual position of a display object in a three-dimensional image displayed in real space to obtain shadows ~~a shadow~~ for applying to the display object from directions ~~a direction~~ of the light sources ~~source~~, the shadow ~~shadow~~ being caused by the light sources ~~source~~; and

displaying the three-dimensional image with the shadow ~~shadow~~.

2. (Currently Amended) The method according to claim 1, further comprising:

detecting lightness of the light sources ~~source~~ at the detectors.

3. (Canceled)

4. (Currently Amended) The method according to claim 1~~-claim 3~~, further comprising:

obtaining a position of a single virtual light source, which represents the plurality of light sources; and

comparing the position of the virtual light source and the virtual position of the display object in the three-dimensional image to obtain a virtual shadow for applying to the display object from a direction of the single virtual light source, the virtual shadow being caused by the single virtual light source.

5. (Currently Amended) A three-dimensional image display device comprising:

a plurality of direction detectors, each of the detectors detecting directions
~~a direction~~ of incident light emitted from a plurality of light sources~~source~~;

a position detector which detects positions~~a position~~ of the plurality of
light sources~~source~~ existing in real space based on the detected directions;

an image process unit configured to compare ~~the~~ each of the positions
~~position~~ of the light sources~~source~~ and a virtual position of a display object in a three-dimensional image displayed in real space to obtain shadows~~a shadow~~ for applying to the display object from directions~~a direction~~ of the light sources~~source~~, the shadows
~~shadow~~ being caused by the light sources~~source~~, and to shade in the three-dimensional image.

6. (Canceled)

7. (Previously Presented) The device according to claim 5, further comprising:

a display surface configured to display the three-dimensional image,

wherein:

the direction detectors are disposed on at least one of the display surface and a surface adjacent to the display surface.

8. (Previously Presented) The device according to claim 5, further comprising:

a display surface configured to display the three-dimensional image,

wherein:

the direction detectors are disposed to be adjacent to the display surface.

9. (Currently Amended) The device according to claim 5, wherein the direction detectors are disposed at a position where the direction detectors detect the light emitted from the light sources ~~source~~-located in the same direction as at least one of a display direction of the three dimensional image and a direction in which the three-dimensional image is observed.

10. (Currently Amended) The device according to claim 5, wherein:
each of the direction detectors includes a ~~include~~ three-primary colors detection unit that adds colors to the shade.

11-15. (Canceled)

16. (New) A three-dimensional image display method comprising:
detecting a relative position of a light source existing in real space based on a display surface as a reference plane;
comparing the relative position of the light source and a relative position of a three-dimensional image displayed in real space based on the display surface as a reference plane to obtain a relative positional relation therebetween; and
shading the three-dimensional image, wherein the three-dimensional image is projected in real space such that the three-dimensional image spatially spreads out in real space.

17. (New) A device according to claim 5,
wherein the position detector detects the positions of the plurality of light sources based on a display surface as a reference plane;
wherein the image process unit compares each of the positions of the light sources and the virtual position of the display object in the three-dimensional image based on the display surface as a reference plane; and
wherein the image process unit projects the image in real space such that the three-dimensional image spatially spreads out in real space.